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PATENT

Our Docket: P-IS 4534

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:  
Aebersold and Goodlett

Serial No.: 09/748,793

Filed: December 26, 2000

For: METHODS FOR RAPID AND  
QUANTITATIVE PROTEOME  
ANALYSIS

Commissioner for Patents  
Washington, D.C. 20231

Examiner: Not Assigned

Group Art Unit: 1645

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By

  
Deborah L. Cadena, Reg. No. 44,048

November 2, 2001

Date of Signature

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449, and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and that their consideration be made of written record in the application file.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-0370.

Respectfully submitted,

Date: November 2, 2001



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A copy of the Information Disclosure  
Statement filed November 2, 2001

Attorney Docket No.: P-IS 4534  
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- ☒ Information Disclosure Statement
- ☒ Form PTO 1449 with 29 References
- ☐ Transmittal form PTO-1083 (in duplicate)
- ☐ Petition for \_\_\_\_\_ month Extension of Time (in duplicate)
- Applicant's Name Aebersold and Goodlett
- Serial Number 09/748,793 Filing Date 12/26/00
- Examiner's Name Not yet assigned Group Art Unit 1645
- Title METHODS FOR RAPID AND QUANTITATIVE PROTEOME ANALYSIS
- ☐ Fee \$ \_\_\_\_\_ Enclosed ☐ Check No.: \_\_\_\_\_
- ☒ Certificate of Mailing - 1st Class Date Mailed: 11/02/01
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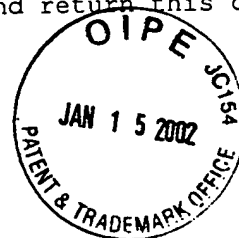
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	APPLICANT: Aebersold and Goodlett	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: December 26, 2000	GROUP: 1645

## U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	5,538,897	7-23-96	Yates III et al.	436	89	3-14-94
	6,017,693	1-25-00	Yates III et al.	435	5	11-27-96

## FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	WO 98/59360	12-30-98	PCT			
	WO 98/59361	12-30-98	PCT			
	WO 98/59362	12-30-98	PCT			
	WO 99/16103	04-01-99	PCT			
	WO 00/11208	3-2-00	PCT			
	WO 00/70648	11-23-00	PCT			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

		Aebersold et al., "Towards an integrated analytical technology for the generation of multidimensional protein expression maps," <u>J. Protein Chem.</u> , 17(6):533-535 (1998).
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EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Constanzo et al., "The yeast proteome database (YPD) and <i>caenorhabditis elegans</i> proteome database (WormPD): comprehensive resources for the organization and comparison of model organism protein information," <u>Nucleic Acids Res.</u> 28(1):73-76 (2000).
	Dalmaso, "Discovery of protein biomarkers and "Phenomic Fingerprints" using SELDI ProteinChip® systems," <u>Life Science On-line</u> , (1999) (printed from <a href="http://www.ciphergen.com//bio.html">http://www.ciphergen.com//bio.html</a> on 6/7/01).
	Ducret et al., "High throughput protein characterization by automated reverse-phase chromatography/electrospray tandem mass spectrometry" <u>Protein Sciences</u> , 7(3):706-719 (1998).
	Eng et al., "An approach to correlate tandem mass spectral data peptides with amino acid sequence in a protein database," <u>J. Am. Soc. Mass. Spectrom.</u> , 5:976-989 (1994).
	Goodlett et al., "Protein identification with a single accurate mass of a cysteine-containing peptide and constrained database searching" <u>Anal. Chem.</u> 72(6):1112-1118 (2000).
	Gygi et al., "Correlation between protein and mRNA abundance in yeast" <u>Mol. Cell Biol.</u> 19(3):1720-1730 (1999).
	Gygi et al., "Quantitative analysis of complex protein mixtures using isotope-coded affinity tags," <u>Nat. Biotechnol.</u> , 17(10):994-999 (1999).
	Gygi et al., "Evaluation of two-dimensional gel electrophoresis based proteome analysis technology" <u>Proc. Natl. Acad. Sci. USA.</u> , 97:9390-9395 (2000).
	Hutchens and Yip, "New desorption strategies for the mass spectrometric analysis of macromolecules," <u>Rapid Commun. Mass Spectrom.</u> , 7:576-580 (1993).

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	Kuwata et al., "Bacterial domain of lactoferrin: detection, quantitation, and characterization of lactoferricin in serum by SELDI affinity mass spectrometry," <u>Biochemical Biophysical Research Communications</u> , 245:764-773 (1998).
	Kuwata et al., "Direct detection and quantitative determination of bovine lactoferricin and lactoferrin fragments in human gastric contents by affinity mass spectrometry," <u>Advances in Experimental Medicine Biology</u> , 443:23-32 (1998).
	Masselon et al., "Accurate mass multiplexed tandem mass spectrometry for high-throughput polypeptide identification from mixtures," <u>Anal. Chem.</u> , 72:1918-1924 (2000).
	Merchant and Weinberger, "Recent advancements in surface-enhanced laser desorption/ionization-time of flight-mass spectrometry," <u>Electrophoresis</u> , 21:1164-1167 (2000).
	Oda et al., "Accurate quantitation of protein expression and site-specific phosphorylation" <u>Proc. Natl. Acad. Sci. USA</u> , 96:6591-6596 (1999).
	Patterson and Aebersold, "Mass spectrometric approaches for identification of gel-separated proteins," <u>Electrophoresis</u> , 16:1791-1814 (1995).
	Pawelitz et al., "Rapid protein display profiling of cancer progression directly from human tissue using a protein biochip," <u>Drug Development Research</u> , 49:34-42 (2000).
	Voivodov et al., "Surface arrays of energy absorbing polymers enabling covalent attachment of biomolecules for subsequent laser-induced uncoupling/desorption," <u>Tetrahedron Lett.</u> , 37:5669-5672 (1996).

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		Weiss et al., "Rapid and sensitive fingerprinting of wine proteins by matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF)," <u>Am. J. Enol. Vitic.</u> , 49:231-239 (1998).
		Wright et al., "ProteinChip® surface enhanced laser desorption/ionization (SELDI) mass spectrometry: a novel protein biochip technology for detection of prostate cancer biomarkers in complex protein mixtures," <u>Prostate Cancer Prostetic Diseases</u> , 2:264-276 (2000).
		Yates et al., "Automated protein identification using microcolumn liquid chromatography-tandem mass spectrometry," <u>Methods Mol. Biol.</u> , 112:553-569 (1999).

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